Patent Application No.: 10/707,910

FAX

To: Charles E. Phillips, USPTO, and Art Unit 3751

FAX: 571-273-8300

Phone: 703-308-1515

Pages: 10 pages including cover page

From: Wilhelm A. Haberkorn

Signature:

Phone: 912-598-9649

FAX: 912-598-8668

Date: March 22, 2005

Re: Patent Application No. **10/707,910**

Revised Claims To Remove Objections under 37 CFR 1.75(C) Referencing MPEP § 608.01(N)

Dear Mr. Phillips:

Enclosed are the completed the revised Claims of Patent Application No. **10/707,910.** I hope that this structure removes the cited objections under 37 CFR 1.75(c) referencing MPEP § 608.01(n).

Kind regards,

W. A. Haberkorn

Revision:
Patent Application No.10/707,910

FAX

To: Charles E. Philips, USPTO, and Art Unit 3751

FAX: 703-872-9306

From: Wilhelm Andreas Haberkorn

Signature:

Phone: 912-598-9649

Fax: 912-598-8668

Date: 3/23/2005

Re: Application No.: **10/707,910**; Response to Office Action Summary dated 2/24/2005

What I claim is:

1. **(currently amended):** A posterior part cleansing apparatus consisting of the following components:

    a. A piping connection from a cold water source to an ~~external~~ encapsulating housing,

    b. An electrical power source connected to said encapsulating housing,

    ~~c. Said external encapsulating housing, having a volume ranging from 50 to 500 cubic inches,~~

    d. Said ~~external~~ encapsulating housing containing the following components:

        i. A ~~n internal~~ cleaning fluid housing,

        ii. A cleaning fluid level controlling valve to maintain the water level within said ~~internal~~ cleaning fluid housing,

iii. A cleaning fluid pump,

iv. A means to interrupt the cleaning fluid flow after deactivation of said fluid pump,

v. A fluid heater,

vi. An electric power source that provides power to both said heater and pump,

e. A means to control duration of pump activation;

f. A cleaning nozzle mounted within the confines of any conventional toilet bowl;

g. A means to pipe the cleaning fluid to a cleaning nozzle;

h. Said cleaning nozzle creating a diffused stream of cleaning fluid to a specific projected cleaning space located within the confines of the toilet bowl where;

i. Said projected cleaning space is parallel to the area projected by the upper rim of the toilet bowl,

ii. Said projected cleaning space is centered in the rear half of the toilet bowl along the longitudinal center line and segmented by the latitudinal center line of the toilet bowl,

iii. Said projected cleaning space upper area is planar in any geometric shape fitting within the confines of an oval area, centered in the rear half along the longitudinal axis of any conventional toilet bowl, where said oval area has a maximum width of 150 millimeters and a maximum length of 200 millimeters, and said oval area is bound in the rear end of said toilet bowl by the inner rim of said toilet bowl.

iv. Said projected cleaning space has a height protruding into the toilet bowl of up to 100 millimeters.

2. **(original):** A posterior part cleansing apparatus specified in Claim 1, where the cleaning nozzle creates a plurality of streams of cleaning fluid toward the projected cleaning space.

3. **(currently amended):** A posterior part cleansing apparatus specified in Claim 1 ~~or 2~~, where a pressure sensitive switch is located under the ~~lid~~ seat of any conventional toilet bowl.

4. **(currently amended):** A posterior part cleansing apparatus specified in Claim 2, where a pressure sensitive switch is located under the ~~lid~~ seat of any conventional toilet bowl.

5. **(currently amended):** A posterior part cleansing apparatus specified in Claim[[s]] 1~~, 2, 3, 4, or 33~~, where the cleaning nozzle has a sanitary cleaning cycle after every use wherein a disinfectant and/or deodorizer is deposited onto the exposed nozzle surfaces.

6. **(original):** A posterior part cleansing apparatus specified in Claim 2, where the cleaning nozzle has a sanitary cleaning cycle after every use wherein a disinfectant and deodorizer is deposited onto the exposed nozzle surfaces.

7. **(currently amended):** A posterior part cleansing apparatus specified in Claim[[s]] 1, ~~2, 3, 4, 5 or 6,~~ where said cleaning nozzle is ~~mounted along the~~ longitudinal axis at the back end of any conventional toilet bowl with a vertical tolerance from the center line of plus or minus 100 millimeters, and said cleaning nozzle is positioned below the upper edge of the rim of said toilet bowl within the toilet bowl in a horizontal tolerance range from 0 to 150 millimeters and within 0 to 100 millimeters of the inner wall of said toilet bowl.

8. **(withdrawn):** A posterior part cleansing apparatus specified in Claim 2, where said cleaning nozzle is mounted along the longitudinal axis at the back end of any conventional toilet bowl with a vertical tolerance from the center line of plus or minus 80 millimeters, and said cleaning nozzle is positioned below the upper edge of the rim of said toilet bowl within the toilet bowl in a horizontal tolerance range from 30 to 150 millimeters and within 0 to 175 millimeters of the inner wall of said toilet bowl.

9. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7 or~~

~~33,~~ 1 - 7, where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second and at a temperature ranging from 25 to 50 degree centigrade.

10. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second at a temperature ranging from 25 to 50 degree centigrade.

11. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9 or 33,~~ 1 - 7, where the cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second, at a temperature ranging from 25 to 50 degree centigrade, and at a nozzle exit velocity ranging from 4 to 6 meters per second.

12. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second, at a temperature ranging from 25 to 50 degree centigrade, and at a nozzle exit velocity ranging from 4 to 6 meters per second.

13. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11 or 33,~~ 1 - 7, where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second and at a temperature ranging from 25 to 50 degree centigrade, and a disinfectant and deodorizer is deposited onto the exposed nozzle surfaces for a period ranging from 0.5 to 10 seconds at the end of every cleaning cycle.

14. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second and at a temperature ranging from 25 to 50 degree centigrade, and a disinfectant and deodorizer is deposited onto the exposed nozzle surfaces for a period ranging from 0.5 to 10 seconds at the end of every cleaning cycle.

15. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11, 13 or 33,~~ 1 - 7, where the cleaning fluid is water.

16. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is water.

17. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11, 13, 15 or 33,~~ 1 - 7, where the cleaning fluid is a mixture of soap and water.

18. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is a mixture of soap and water.

19. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17 or 33,~~ 1 - 7, where the cleaning fluid is a mixture of water, anti-bactericides and soap.

20. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is a mixture of water, anti-bactericides and soap.

21. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19 or 33,~~ 1 - 7, where the cleaning fluid is a mixture of water, anti-bactericides, anti-smelling agents and soap.

22. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is a mixture of water, anti-bactericides, anti-smelling agents and soap.

23. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21 or 33,~~ 1 - 7, where the duration of the cleaning cycle is automatically time controlled.

24. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the duration of the cleaning cycle is automatically time controlled.

25. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23 or 33,~~ 1 - 7, where the duration of the cleaning cycle is manually time controlled.

26. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the duration of the cleaning cycle is manually time controlled.

27. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25 or 33,~~ 1 - 7, where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second.

28. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second.

29. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27 or 33,~~ 1 - 7, where the temperature of the cleaning fluid is controllable within a range of 15 to 50 degrees centigrade.

30. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the temperature of the cleaning fluid is controllable within a range of 15 to 50 degrees centigrade.

31. **(currently amended):** A process employing a posterior part cleansing apparatus specified as in one of Claims ~~1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29 or 33,~~ 1 - 7, where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second, and where the temperature of the cleaning fluid is controllable within a range of 30 to 50 degrees centigrade.

32. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second, and where the temperature of the cleaning fluid is controllable within a range of 30 to 50 degrees centigrade.

33. **(previously presented):** A posterior part cleansing apparatus specified in Claim 1, where the cleaning nozzle creates a single of stream of cleaning fluid toward the projected cleaning space.

34. **(currently amended):** An apparatus specified as in one of Claims 1 -7, ~~1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29 or 33,~~ where a bidet function is provided through a second cleaning nozzle assembly.

35. **(currently amended):** An apparatus specified in Claim 34, where the said ~~external~~ encapsulating housing is mountable to any conventional toilet bowl as a replacement of a conventional toilet seat and lid assembly.

36. **(currently amended):** An apparatus specified in Claim 35, where a post posterior part cleansing air drying function is incorporated within said ~~external~~ encapsulating housing.

37. **(currently amended):** An apparatus specified in Claim 36, where a plenum chamber uniformly distributes heated air to multiple points of use within said ~~external~~ encapsulating housing.

38. **(currently amended):** An apparatus specified in Claim[[s]] 36 ~~or 37~~, where the air drying function is automatically activated.

39. **(currently amended):** An apparatus specified in Claim[[s]] 36 ~~or 37~~, where the air drying function is manually activated.

40. **(currently amended):** An apparatus specified in Claim[[s]] 36, ~~37, 38, or 39,~~ where the drying air temperature and volume is user selectable.

41. **(withdraw):** An apparatus specified in Claims 34, 35, 36, 37, 38, 39, or 40, employing processes specified in Claims 9, 11, 13, 15, 17, 19, 21, 23, 25, or 27, where replaceable cartridges are used as source for each component of several posterior part cleaning process additives.

42. **(currently amended):** An apparatus specified in Claim[[s]] 36, ~~37, 38, 39, or 40,~~ where a replaceable air freshener cartridge is incorporated into the said air drying function.

43. **(currently amended):** An apparatus specified in Claim[[s 34,]] 35, ~~36, 37, 38, 39, 40 or 41,~~ where the ~~external~~ encapsulating housing material include anti-bacterial polymer components.

PAGE 9/10 * RCVD AT 3/24/2005 4:27:46 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/24 * DNIS:2738300 * CSID:912 598 8668 * DURATION (mm-ss):06-08

53. (previously presented): An apparatus specified in Claim 52, where the cleaning nozzle connection is indexed and a push-in type.

54. (currently amended): An apparatus specified in Claim[[s 34 or]] 35, where the cleaning nozzle is retractable to a non-use position.

55. (currently amended): An apparatus specified in Claim[[s 34 or]] 35, where the cleaning nozzle movement into an operating position is cleaning fluid pressure activated.

56. (currently amended): An apparatus specified in Claim[[s 34 or]] 35, where the cleaning nozzle movement into an operating position is solenoid activated.

57. (currently amended): An apparatus specified in Claim[[s 34 or]] 35, where the cleaning nozzle movement into an operating position is mechanically activated.

58. (currently amended): A process employing a posterior part cleansing apparatus specified in Claim[[s 34,]] 35, ~~36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 or 57,~~ where the cleaning fluid is water.

59. (currently amended): A process employing a posterior part cleansing apparatus specified in Claim[[s 34,]] 35, ~~36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 or 57,~~ where the cleaning fluid is a mixture of soap and water.

60. (currently amended): A process employing a posterior part cleansing apparatus specified in Claim[[s 34,]] 35, ~~36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 or 57,~~ where the cleaning fluid is a mixture of water, anti-bactericides and soap.

61. (currently amended): A process employing a posterior part cleansing apparatus specified in Claim[[s 34,]] 35, ~~36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 or 57,~~ where the cleaning fluid is a mixture of water, anti-bactericides, anti-smelling agents and soap.